

Donald S Prough

List of Publications by Year in descending order

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Version: 2024-02-01

307
papers

7,816
citations

47409

49
h-index

87275

74
g-index

316
all docs

316
docs citations

316
times ranked

6028
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic insights gained from cell and molecular analysis of the neuroprotective potential of bioactive natural compounds in an immortalized hippocampal cell line. PLoS ONE, 2022, 17, e0267682.	1.1	2
2	Arginine vasopressin receptor 2 activation promotes microvascular permeability in sepsis. Pharmacological Research, 2021, 163, 105272.	3.1	6
3	Accelerated Failure Time Survival Model to Analyze Morris Water Maze Latency Data. Journal of Neurotrauma, 2021, 38, 435-445.	1.7	7
4	High molecular weight sodium hyaluronate improves survival of syndecan-1-deficient septic mice by inhibiting neutrophil migration. PLoS ONE, 2021, 16, e0250327.	1.1	3
5	Leveraging publicly available coronavirus data to identify new therapeutic targets for COVID-19. PLoS ONE, 2021, 16, e0257965.	1.1	2
6	Traumatic brain injury induces region-specific glutamate metabolism changes as measured by multiple mass spectrometry methods. IScience, 2021, 24, 103108.	1.9	16
7	Omega-7 oil increases telomerase activity and accelerates healing of grafted burn and donor site wounds. Scientific Reports, 2021, 11, 975.	1.6	7
8	Modulation of oxidative and nitrosative stress attenuates microvascular hyperpermeability in ovine model of Pseudomonas aeruginosa sepsis. Scientific Reports, 2021, 11, 23966.	1.6	4
9	Surgical anatomy of ovine facial and hypoglossal nerves for facial nerve reconstruction and regeneration research: An experimental study in sheep. Microsurgery, 2020, 40, 51-58.	0.6	13
10	Monophosphoryl Lipid a Attenuates Multiorgan Dysfunction During Post-Burn Pseudomonas Aeruginosa Pneumonia in Sheep. Shock, 2020, 53, 307-316.	1.0	12
11	Non-Invasive Transcranial Nano-Pulsed Laser Therapy Ameliorates Cognitive Function and Prevents Aberrant Migration of Neural Progenitor Cells in the Hippocampus of Rats Subjected to Traumatic Brain Injury. Journal of Neurotrauma, 2020, 37, 1108-1123.	1.7	7
12	Introduction to the Special Issue on Translation. Journal of Neurotrauma, 2020, 37, 2351-2352.	1.7	0
13	Superior Effects of Nebulized Epinephrine to Nebulized Albuterol and Phenylephrine in Burn and Smoke Inhalation-Induced Acute Lung Injury. Shock, 2020, 54, 774-782.	1.0	6
14	Polyurethane foam for skin graft fixation in clinical-relevant ovine burn wound model for wound repair and regeneration research. Regenerative Therapy, 2020, 14, 341-343.	1.4	12
15	Principal component analysis of blood microRNA datasets facilitates diagnosis of diverse diseases. PLoS ONE, 2020, 15, e0234185.	1.1	18
16	MicroRNA sequencing of rat hippocampus and human biofluids identifies acute, chronic, focal and diffuse traumatic brain injuries. Scientific Reports, 2020, 10, 3341.	1.6	16
17	Club Cell Protein, CC10, Attenuates Acute Respiratory Distress Syndrome Induced by Smoke Inhalation. Shock, 2020, 53, 317-326.	1.0	5
18	Adipose-derived stem cells improve grafted burn wound healing by promoting wound bed blood flow. Burns and Trauma, 2020, 8, tkaa009.	2.3	20

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19	Blood carboxyhemoglobin elimination curve, half-lifetime, and arterial-venous differences in acute phase of carbon monoxide poisoning in ovine smoke inhalation injury model. <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 141-146.	1.0	8
20	Cutaneous burn diminishes beneficial effect of intravenously administered mesenchymal stem cells on acute lung injury induced by smoke inhalation in sheep. <i>Burns</i> , 2020, 46, 1914-1923.	1.1	6
21	Surgical anatomy of the ovine sural nerve for facial nerve regeneration and reconstruction research. <i>Scientific Reports</i> , 2019, 9, 10564.	1.6	6
22	MicroRNA profiling identifies a novel compound with antidepressant properties. <i>PLoS ONE</i> , 2019, 14, e0221163.	1.1	4
23	Effects of Blast-induced Neurotrauma on Pressurized Rodent Middle Cerebral Arteries. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	5
24	Modulation of Peroxynitrite Reduces Norepinephrine Requirements in Ovine MRSA Septic Shock. <i>Shock</i> , 2019, 52, e92-e99.	1.0	10
25	Traumatic brain injury induces long-lasting changes in immune and regenerative signaling. <i>PLoS ONE</i> , 2019, 14, e0214741.	1.1	34
26	Population Kinetics of 0.9% Saline Distribution in Hemorrhaged Awake and Isoflurane-anesthetized Volunteers. <i>Anesthesiology</i> , 2019, 131, 501-511.	1.3	7
27	Finding the Hidden (Statistical) Platform*. <i>Critical Care Medicine</i> , 2019, 47, 480-483.	0.4	3
28	Peroxynitrite decomposition catalyst reduces vasopressin requirement in ovine MRSA sepsis. <i>Intensive Care Medicine Experimental</i> , 2019, 7, 12.	0.9	6
29	Is "Moderate" the Correct Adjective?*. <i>Critical Care Medicine</i> , 2018, 46, 829-831.	0.4	2
30	Nano-Pulsed Laser Therapy Is Neuroprotective in a Rat Model of Blast-Induced Neurotrauma. <i>Journal of Neurotrauma</i> , 2018, 35, 1510-1522.	1.7	25
31	Development of a stretch-induced neurotrauma model for medium-throughput screening <i>in vitro</i> : identification of rifampicin as a neuroprotectant. <i>British Journal of Pharmacology</i> , 2018, 175, 284-300.	2.7	18
32	Effects of Mild Blast Traumatic Brain Injury on Cerebral Vascular, Histopathological, and Behavioral Outcomes in Rats. <i>Journal of Neurotrauma</i> , 2018, 35, 375-392.	1.7	50
33	1071: DIFFERENTIAL CARDIOPULMONARY HOST RESPONSES TO CHLORINE AND PHOSGENE GAS INHALATION IN SHEEP. <i>Critical Care Medicine</i> , 2018, 46, 519-519.	0.4	1
34	1397: ABLATION OF SYNDECAN-1 INCREASES SUSCEPTIBILITY TO INFECTION AND INCREASES MORTALITY OF SEPTIC MICE. <i>Critical Care Medicine</i> , 2018, 46, 682-682.	0.4	0
35	Proteomic changes in traumatic brain injury: experimental approaches. <i>Current Opinion in Neurology</i> , 2018, 31, 709-717.	1.8	14
36	Mild, moderate and severe: terminology implications for clinical and experimental traumatic brain injury. <i>Current Opinion in Neurology</i> , 2018, 31, 672-680.	1.8	38

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37	Pre-Clinical Testing of Therapies for Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 2737-2754.	1.7	68
38	Accuracy and Precision of an Optoacoustic Prototype in Determining Endotracheal Tube Position in Children. <i>Respiratory Care</i> , 2018, 63, 1463-1470.	0.8	2
39	Impact & Blast Traumatic Brain Injury: Implications for Therapy. <i>Molecules</i> , 2018, 23, 245.	1.7	21
40	Adherence to Endotracheal Tube Depth Guidelines and Incidence of Malposition in Infants and Children. <i>Respiratory Care</i> , 2018, 63, 1111-1117.	0.8	19
41	Noninvasive measurement of cerebral venous oxygenation in neonates with a multi-wavelength, fiber-coupled laser diode optoacoustic system. , 2018, , .		0
42	Optoacoustic theranostics. , 2018, , .		0
43	Simultaneous measurements of total hemoglobin concentration and blood oxygenation with laser diode-based optoacoustic system. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
44	Evidence linking microRNA suppression of essential prosurvival genes with hippocampal cell death after traumatic brain injury. <i>Scientific Reports</i> , 2017, 7, 6645.	1.6	31
45	Persistent Behavioral Deficits in Rats after Parasagittal Fluid Percussion Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 1086-1096.	1.7	30
46	Adipose-derived stem cells attenuate pulmonary microvascular hyperpermeability after smoke inhalation. <i>PLoS ONE</i> , 2017, 12, e0185937.	1.1	18
47	Optoacoustic mapping of cerebral blood oxygenation in humans. <i>Proceedings of SPIE</i> , 2017, , .	0.8	2
48	Cerebral blood oxygenation measurements in neonates with optoacoustic technique. , 2017, , .		1
49	Effects of AAV-mediated knockdown of nNOS and GPx-1 gene expression in rat hippocampus after traumatic brain injury. <i>PLoS ONE</i> , 2017, 12, e0185943.	1.1	12
50	Delirium prevention: another piece of the puzzle. <i>Journal of Thoracic Disease</i> , 2016, 8, E1614-E1616.	0.6	1
51	Nebulized Epinephrine Limits Pulmonary Vascular Hyperpermeability to Water and Protein in Ovine With Burn and Smoke Inhalation Injury. <i>Critical Care Medicine</i> , 2016, 44, e89-e96.	0.4	19
52	Molecular Turbocharging Stem Cells to Improve Treatment of Experimental Spinal Cord Injury*. <i>Critical Care Medicine</i> , 2016, 44, 649-650.	0.4	0
53	Reducing the Angst Associated With Withdrawal of Life-Sustaining Therapy*. <i>Critical Care Medicine</i> , 2016, 44, 1241-1242.	0.4	2
54	Patient preference for the pre-anesthesia evaluation: Telephone versus in-office assessment. <i>Journal of Clinical Anesthesia</i> , 2016, 31, 145-148.	0.7	26

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55	Human Neural Stem Cell Transplantation-Mediated Alteration of Microglial/Macrophage Phenotypes after Traumatic Brain Injury. <i>Cell Transplantation</i> , 2016, 25, 1863-1877.	1.2	56
56	What to Do When Haloperidol Fails to Treat Agitated Delirium. <i>Critical Care Medicine</i> , 2016, 44, 1426-1428.	0.4	3
57	Delirium. <i>Critical Care Medicine</i> , 2016, 44, 1265-1266.	0.4	3
58	Transmission (forward) mode, transcranial, noninvasive optoacoustic measurements for brain monitoring, imaging, and sensing. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
59	Tau Oligomers Derived from Traumatic Brain Injury Cause Cognitive Impairment and Accelerate Onset of Pathology in Htau Mice. <i>Journal of Neurotrauma</i> , 2016, 33, 2034-2043.	1.7	75
60	Stochastic fluctuations in gene expression in aging hippocampal neurons could be exacerbated by traumatic brain injury. <i>Aging Clinical and Experimental Research</i> , 2016, 28, 363-367.	1.4	3
61	Noninvasive, optoacoustic detection and characterization of intra- and extracranial hematomas and cerebral hypoxia. , 2015, , .		0
62	Measurement of Postreplicative DNA Metabolism and Damage in the Rodent Brain. <i>Chemical Research in Toxicology</i> , 2015, 28, 2352-2363.	1.7	7
63	Monitoring cerebral venous blood oxygenation in neonates with a medical-grade optoacoustic system. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
64	Pathway-Focused PCR Array Profiling of Enriched Populations of Laser Capture Microdissected Hippocampal Cells after Traumatic Brain Injury. <i>PLoS ONE</i> , 2015, 10, e0127287.	1.1	30
65	Comparison of Gene Expression by Sheep and Human Blood Stimulated with the TLR4 Agonists Lipopolysaccharide and Monophosphoryl Lipid A. <i>PLoS ONE</i> , 2015, 10, e0144345.	1.1	26
66	Arginine Vasopressin Receptor 2 (V2R) Activation Disrupts Endothelial Barrier and Promotes Vascular Hyperpermeability. <i>FASEB Journal</i> , 2015, 29, 789.7.	0.2	0
67	Optoacoustic detection and monitoring of blast-induced intracranial hematomas in rats. , 2014, , .		2
68	Optoacoustic monitoring of central and peripheral venous oxygenation during simulated hemorrhage. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
69	Isoproterenol Increases Vascular Volume Expansion And Urinary Output After a Large Crystalloid Bolus in Healthy Volunteers. <i>Shock</i> , 2014, 42, 407-414.	1.0	8
70	Advantages and pitfalls of combining intravenous antithrombin with nebulized heparin and tissue plasminogen activator in acute respiratory distress syndrome. <i>Journal of Trauma and Acute Care Surgery</i> , 2014, 76, 126-133.	1.1	10
71	Optoacoustic measurement of central venous oxygenation for assessment of circulatory shock: clinical study in cardiac surgery patients. , 2014, , .		2
72	Human mesenchymal stem cells reduce the severity of acute lung injury in a sheep model of bacterial pneumonia. <i>Thorax</i> , 2014, 69, 819-825.	2.7	133

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73	Traumatic Brain Injury<i>In Vivo</i> and<i>In Vitro</i> Contributes to Cerebral Vascular Dysfunction through Impaired Gap Junction Communication between Vascular Smooth Muscle Cells. <i>Journal of Neurotrauma</i> , 2014, 31, 739-748.	1.7	18
74	Optoacoustic detection of intra- and extracranial hematomas in rats after blast injury. <i>Photoacoustics</i> , 2014, 2, 75-80.	4.4	17
75	Neurogenic and neuro-protective potential of a novel subpopulation of peripheral blood-derived CD133+ ABCG2+CXCR4+ mesenchymal stem cells: development of autologous cell-based therapeutics for traumatic brain injury. <i>Stem Cell Research and Therapy</i> , 2013, 4, 3.	2.4	73
76	Noninvasive optoacoustic system for rapid diagnosis and management of circulatory shock. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
77	Effects of trauma, hemorrhage and resuscitation in aged rats. <i>Brain Research</i> , 2013, 1496, 28-35.	1.1	13
78	Test Driving Levosimendan as the New "Kidney Protector". <i>Critical Care Medicine</i> , 2013, 41, 2445-2446.	0.4	2
79	Cerebral venous blood oxygenation monitoring during hyperventilation in healthy volunteers with a novel optoacoustic system. , 2013, , .		2
80	Rapid Accumulation of Endogenous Tau Oligomers in a Rat Model of Traumatic Brain Injury. <i>Journal of Biological Chemistry</i> , 2013, 288, 17042-17050.	1.6	115
81	Detection of Structural and Metabolic Changes in Traumatically Injured Hippocampus by Quantitative Differential Proteomics. <i>Journal of Neurotrauma</i> , 2013, 30, 775-788.	1.7	32
82	Monitoring the Brain to Save the Kidneys*. <i>Critical Care Medicine</i> , 2013, 41, 671-672.	0.4	2
83	Antithrombin Attenuates Vascular Leakage via Inhibiting Neutrophil Activation in Acute Lung Injury. <i>Critical Care Medicine</i> , 2013, 41, e439-e446.	0.4	39
84	Pathway Analysis Reveals Common Pro-Survival Mechanisms of Metyrapone and Carbenoxolone after Traumatic Brain Injury. <i>PLoS ONE</i> , 2013, 8, e53230.	1.1	25
85	Noninvasive optoacoustic system for rapid diagnostics and management of circulatory shock. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
86	'Professor Galveston' has departed. Obituary - Daniel Traber. <i>Critical Care</i> , 2012, 16, 169.	2.5	0
87	Molecular Mechanisms Underlying Effects of Neural Stem Cells against Traumatic Axonal Injury. <i>Journal of Neurotrauma</i> , 2012, 29, 295-312.	1.7	29
88	Novel optoacoustic system for noninvasive continuous monitoring of cerebral venous blood oxygenation. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
89	Noninvasive optoacoustic monitoring of cerebral venous blood oxygenation in newborns. , 2012, , .		1
90	Fluorophilia: Fluorophore-containing compounds adhere non-specifically to injured neurons. <i>Brain Research</i> , 2012, 1432, 28-35.	1.1	10

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91	Traumatic Brain Injury-Induced Dysregulation of the Circadian Clock. PLoS ONE, 2012, 7, e46204.	1.1	80
92	Assessment of Cerebral Vascular Dysfunction After Traumatic Brain Injury. Springer Protocols, 2012, , 263-273.	0.1	0
93	Cerebrovascular Connexin Expression: Effects of Traumatic Brain Injury. Journal of Neurotrauma, 2011, 28, 1803-1811.	1.7	16
94	High-resolution ultrasound imaging and noninvasive optoacoustic monitoring of blood variables in peripheral blood vessels. Proceedings of SPIE, 2011, , .	0.8	1
95	Vascular and Extravascular Volume Expansion of Dobutamine and Norepinephrine in Normovolemic Sheep. Shock, 2011, 36, 303-311.	1.0	11
96	Focused, wide-band, polymer-based optoacoustic transducers for noninvasive monitoring of total hemoglobin concentration and other blood variables. Proceedings of SPIE, 2011, , .	0.8	2
97	Combination of optoacoustics and ultrasound imaging for non-invasive, rapid assessment, and management of circulatory shock. Proceedings of SPIE, 2011, , .	0.8	1
98	Optoacoustic technique for noninvasive monitoring of endotracheal tube placement and positioning. Proceedings of SPIE, 2011, , .	0.8	1
99	Influence of Stochastic Gene Expression on the Cell Survival Rheostat after Traumatic Brain Injury. PLoS ONE, 2011, 6, e23111.	1.1	34
100	Hypoproteinemia does not alter plasma volume expansion in response to a 0.9% saline bolus in awake sheep. Critical Care Medicine, 2010, 38, 2011-2015.	0.4	4
101	The relationship between transient zinc ion fluctuations and redox signaling in the pathways of secondary cellular injury: Relevance to traumatic brain injury. Brain Research, 2010, 1330, 131-141.	1.1	31
102	Noninvasive optoacoustic monitoring platform: clinical studies. , 2010, , .		2
103	Novel focused optoacoustic transducers for accurate monitoring of total hemoglobin concentration and oxyhemoglobin saturation: pre-clinical and clinical tests. Proceedings of SPIE, 2010, , .	0.8	0
104	Novel optoacoustic array for noninvasive monitoring of blood parameters. , 2009, , .		3
105	Clinical tests of highly portable 2-lb. laser diode-based noninvasive optoacoustic hemoglobin monitor. , 2009, , .		5
106	Pharmacokinetic aspects of fluid therapy. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2009, 23, 213-224.	1.7	14
107	Blast-Induced Brain Injury and Posttraumatic Hypotension and Hypoxemia. Journal of Neurotrauma, 2009, 26, 877-887.	1.7	120
108	<sc>Arginine Decreases Fluid-Perfusion Injury-Induced Neuronal Nitrotyrosine Immunoreactivity in Rats. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 1733-1741.	2.4	16

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109	Chelation of neurotoxic zinc levels does not improve neurobehavioral outcome after traumatic brain injury. <i>Neuroscience Letters</i> , 2008, 440, 155-159.	1.0	25
110	Effect on blood glucose monitoring of skin pressure exerted by an optical coherence tomography probe. <i>Journal of Biomedical Optics</i> , 2008, 13, 021112.	1.4	25
111	Noninvasive Monitoring of Glucose Concentration with Optical Coherence Tomography. <i>Series in Medical Physics and Biomedical Engineering</i> , 2008, , 563-586.	0.1	0
112	Combined anticoagulants ameliorate acute lung injury in sheep after burn and smoke inhalation. <i>Clinical Science</i> , 2008, 114, 321-329.	1.8	49
113	EFFECT OF ESMOLOL ON FLUID THERAPY IN NORMOVOLEMIA AND HYPOVOLEMIA. <i>Shock</i> , 2008, 30, 55-63.	1.0	12
114	Closed-Loop Control of Fluid Therapy for Treatment of Hypovolemia. <i>Journal of Trauma</i> , 2008, 64, S333-S341.	2.3	51
115	Hypertonic Resuscitation Improves Neuronal and Behavioral Outcomes after Traumatic Brain Injury plus Hemorrhage. <i>Anesthesiology</i> , 2008, 108, 873-881.	1.3	34
116	Prediction Capability of Optical Coherence Tomography for Blood Glucose Concentration Monitoring. <i>Journal of Diabetes Science and Technology</i> , 2007, 1, 470-477.	1.3	17
117	Aerosolized anticoagulants ameliorate acute lung injury in sheep after exposure to burn and smoke inhalation. <i>Critical Care Medicine</i> , 2007, 35, 2805-2810.	0.4	30
118	Population Volume Kinetics Predicts Retention of 0.9% Saline Infused in Awake and Isoflurane-anesthetized Volunteers. <i>Anesthesiology</i> , 2007, 107, 24-32.	1.3	75
119	Broadband optoacoustic system for noninvasive measurement of total blood hemoglobin concentration in radial artery. , 2007, , .		1
120	Aerosolized anticoagulants ameliorate acute lung injury in sheep after exposure to burn and smoke inhalation. <i>Critical Care Medicine</i> , 2007, 35, 2805-2810.	0.4	60
121	Correlation between optical coherence tomography images and histology of pigskin. <i>Applied Optics</i> , 2007, 46, 1782.	2.1	5
122	Monte Carlo modeling of optoacoustic signals from human internal jugular veins. <i>Applied Optics</i> , 2007, 46, 4820.	2.1	10
123	Injured Fluoro-Jade-positive hippocampal neurons contain high levels of zinc after traumatic brain injury. <i>Brain Research</i> , 2007, 1127, 119-126.	1.1	48
124	Volume Replacement Therapy during Major Orthopedic Surgery Using Voluven® (Hydroxyethyl Starch) Tj ETQq0 0,0 rgBT /Overlock 10	1.3	101
125	Transplantation of primed human fetal neural stem cells improves cognitive function in rats after traumatic brain injury. <i>Experimental Neurology</i> , 2006, 201, 281-292.	2.0	136
126	Multiwavelength optoacoustic system for noninvasive monitoring of cerebral venous oxygenation: a pilot clinical test in the internal jugular vein. <i>Optics Letters</i> , 2006, 31, 1827.	1.7	87

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127	Crystalloid Solutions. , 2006, , 126-138.		0
128	Influence of Osmolytes on <i>In Vivo</i> Glucose Monitoring Using Optical Coherence Tomography. <i>Experimental Biology and Medicine</i> , 2006, 231, 1323-1332.	1.1	20
129	Splanchnic Oxygen Consumption Is Impaired during Severe Acute Normovolemic Anemia in Anesthetized Humans. <i>Anesthesiology</i> , 2006, 105, 37-44.	1.3	20
130	Normotensive and hypotensive closed-loop resuscitation using 3.0% NaCl to treat multiple hemorrhages in sheep*. <i>Critical Care Medicine</i> , 2006, 34, 1185-1192.	0.4	68
131	Isoflurane Inhibits Compensatory Intravascular Volume Expansion After Hemorrhage in Sheep. <i>Anesthesia and Analgesia</i> , 2006, 103, 350-358.	1.1	22
132	LEFT VENTRICULAR DIASTOLIC FILLING CHARACTERISTICS ARE NOT IMPAIRED BUT SYSTOLIC PERFORMANCE WAS AUGMENTED IN THE EARLY HOURS OF EXPERIMENTAL ENDOTOXEMIA IN HUMANS. <i>Shock</i> , 2006, 25, 338-343.	1.0	8
133	Unintended Consequences? Unanswered Questions?. <i>Anesthesia and Analgesia</i> , 2006, 102, 1908-1909.	1.1	4
134	EFFECTS OF HYPERTONIC ARGININE ON CEREBRAL BLOOD FLOW AND INTRACRANIAL PRESSURE AFTER TRAUMATIC BRAIN INJURY COMBINED WITH HEMORRHAGIC HYPOTENSION. <i>Shock</i> , 2006, 26, 290-295.	1.0	16
135	Molecular correlates of age-specific responses to traumatic brain injury in mice. <i>Experimental Gerontology</i> , 2006, 41, 1201-1205.	1.2	41
136	In vivostudy of glucose-induced changes in skin properties assessed with optical coherence tomography. <i>Physics in Medicine and Biology</i> , 2006, 51, 3885-3900.	1.6	41
137	Volume Turnover Kinetics of Fluid Shifts after Hemorrhage, Fluid Infusion, and the Combination of Hemorrhage and Fluid Infusion in Sheep. <i>Anesthesiology</i> , 2005, 102, 985-994.	1.3	52
138	The Prevalence and Characteristics of Incentive Plans for Clinical Productivity Among Academic Anesthesiology Programs. <i>Anesthesia and Analgesia</i> , 2005, 100, 493-501.	1.1	48
139	“The Proper Study of Mankind Is Man” Rather, Men and Women Undergoing Anesthesia and Surgery. <i>Anesthesiology</i> , 2005, 103, 451-452.	1.3	1
140	Sepsis Produced by Pseudomonas Bacteremia Does Not Alter Plasma Volume Expansion After 0.9% Saline Infusion in Sheep. <i>Anesthesia and Analgesia</i> , 2005, 101, 835-842.	1.1	9
141	Optoacoustic, Noninvasive, Real-Time, Continuous Monitoring of Cerebral Blood Oxygenation: An In Vivo Study in Sheep. <i>Anesthesiology</i> , 2005, 102, 69-75.	1.3	75
142	Traumatic Brain Injury and Hemorrhagic Hypotension Suppress Neuroprotective Gene Expression in Injured Hippocampal Neurons. <i>Anesthesiology</i> , 2005, 102, 806-814.	1.3	35
143	Anesthetic Pitfalls in the Elderly Patient. <i>Journal of the American College of Surgeons</i> , 2005, 200, 784-794.	0.2	20
144	Dose-dependent neuronal injury after traumatic brain injury. <i>Brain Research</i> , 2005, 1044, 144-154.	1.1	40

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145	Peroxynitrite Generated at the Level Produced by Spinal Cord Injury Induces Peroxidation of Membrane Phospholipids in Normal Rat Cord: Reduction by a Metalloporphyrin. <i>Journal of Neurotrauma</i> , 2005, 22, 1123-1133.	1.7	53
146	Optoacoustic monitoring of blood hemoglobin concentration: a pilot clinical study. <i>Optics Letters</i> , 2005, 30, 1677.	1.7	69
147	HYPOTENSIVE RESUSCITATION OF MULTIPLE HEMORRHAGES USING CRYSTALLOID AND COLLOIDS. <i>Shock</i> , 2004, 22, 262-269.	1.0	73
148	Cerebral Pressure Autoregulation Is Intact and Is Not Influenced by Hypothermia after Traumatic Brain Injury in Rats. <i>Journal of Neurotrauma</i> , 2004, 21, 1212-1222.	1.7	10
149	Method for identifying neuronal cells suffering zinc toxicity by use of a novel fluorescent sensor. <i>Journal of Neuroscience Methods</i> , 2004, 139, 79-89.	1.3	52
150	The Effects of Traumatic Brain Injury on Cerebral Blood Flow and Brain Tissue Nitric Oxide Levels and Cytokine Expression. <i>Journal of Neurotrauma</i> , 2004, 21, 1431-1442.	1.7	70
151	Laser capture microdissection and analysis of amplified antisense RNA from distinct cell populations of the young and aged rat brain: effect of traumatic brain injury on hippocampal gene expression. <i>Molecular Brain Research</i> , 2004, 122, 47-61.	2.5	44
152	Protective effects of zinc chelation in traumatic brain injury correlate with upregulation of neuroprotective genes in rat brain. <i>Neuroscience Letters</i> , 2004, 355, 221-225.	1.0	55
153	Continuous, noninvasive monitoring of total hemoglobin concentration by an optoacoustic technique. <i>Applied Optics</i> , 2004, 43, 3401.	2.1	62
154	Impact of intensivists on outcome of critically ill neurologic and neurosurgical patients*. <i>Critical Care Medicine</i> , 2004, 32, 2363-2364.	0.4	4
155	Increasing the Value of Time Reduces the Lost Economic Opportunity of Caring for Surgeries of Longer-Than-Average Times. <i>Anesthesia and Analgesia</i> , 2004, 98, 1737-1742.	1.1	6
156	Elimination Rate Constant Describing Clearance of Infused Fluid from Plasma Is Independent of Large Infusion Volumes of 0.9% Saline in Sheep. <i>Anesthesiology</i> , 2004, 101, 666-674.	1.3	31
157	Influence of the Type of Anesthesia Provider on Costs of Labor Analgesia to the Texas Medicaid Program. <i>Anesthesiology</i> , 2004, 101, 991-998.	1.3	13
158	Revenue Gain for Academic Anesthesiology Departments if the Centers for Medicare and Medicaid Services Provide Full Reimbursement to Teaching Physicians. <i>Anesthesiology</i> , 2004, 100, 754-754.	1.3	1
159	Two Reports of Propofol Anesthesia Associated with Metabolic Acidosis in Adults. <i>Anesthesiology</i> , 2004, 101, 6-8.	1.3	13
160	Quantifying Net Staffing Costs Due to Longer-than-average Surgical Case Durations. <i>Anesthesiology</i> , 2004, 100, 403-412.	1.3	63
161	Effects of Different Catecholamines on the Dynamics of Volume Expansion of Crystalloid Infusion. <i>Anesthesiology</i> , 2004, 101, 1136-1144.	1.3	42
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166	Isoflurane but Not Mechanical Ventilation Promotes Extravascular Fluid Accumulation during Crystalloid Volume Loading. <i>Anesthesiology</i> , 2003, 98, 670-681.	1.3	85
167	Inclusion of Turnover Time Does Not Influence Identification of Surgical Services that Over- and Underutilize Allocated Block Time. <i>Anesthesia and Analgesia</i> , 2003, 96, 813-818.	1.1	34
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169	Organizational Factors Affect Comparisons of the Clinical Productivity of Academic Anesthesiology Departments. <i>Anesthesia and Analgesia</i> , 2003, 96, 802-812.	1.1	24
170	Near-Infrared Spectroscopy-Guided Closed-Loop Resuscitation of Hemorrhage. <i>Journal of Trauma</i> , 2003, 54, S183-S192.	2.3	21
171	Rate of change in brain tissue Po ₂ : A novel index of cerebral pressure autoregulation *. <i>Critical Care Medicine</i> , 2003, 31, 331-333.	0.4	1
172	Desperate appliance *. <i>Critical Care Medicine</i> , 2003, 31, 1592-1593.	0.4	1
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174	Comparing Clinical Productivity of Anesthesiology Groups. <i>Anesthesiology</i> , 2002, 97, 608-615.	1.3	59
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176	Physiological or Functional Fluid Spaces. <i>Anesthesia and Analgesia</i> , 2002, 95, 252.	1.1	1
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178	Optoacoustic technique for noninvasive monitoring of blood oxygenation: a feasibility study. <i>Applied Optics</i> , 2002, 41, 4722.	2.1	160
179	Anesthetic management of traumatic brain injury. <i>Anesthesiology Clinics</i> , 2002, 20, 417-439.	1.4	18
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186	Designing Meaningful Industry Metrics for Clinical Productivity for Anesthesiology Departments. Anesthesia and Analgesia, 2001, 93, 309-312.	1.1	22
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201	Traumatic Brain Injury Reduces Myogenic Responses in Pressurized Rodent Middle Cerebral Arteries. Journal of Neurotrauma, 1999, 16, 1177-1186.	1.7	34
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213	Hypertonic maintenance fluids for patients with cerebral edema. Critical Care Medicine, 1998, 26, 421-422.	0.4	8
214	Accurate measurement of brain temperature. Critical Care Medicine, 1998, 26, 431-432.	0.4	5
215	Vasoactive prostanoids and traumatic brain injury. Critical Care Medicine, 1998, 26, 819-821.	0.4	4
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218	Effects of Nalmefene, CG3703, Tirilazad, or Dopamine on Cerebral Blood Flow, Oxygen Delivery, and Electroencephalographic Activity After Traumatic Brain Injury and Hemorrhage. <i>Journal of Neurotrauma</i> , 1997, 14, 931-941.	1.7	18
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220	Cerebral blood flow during experimental endotoxemia in volunteers. <i>Critical Care Medicine</i> , 1997, 25, 1700-1706.	0.4	47
221	Global cerebral ischemia in humans. <i>Critical Care Medicine</i> , 1997, 25, 1776-1777.	0.4	6
222	Therapy of Patients with Head Injuries. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997, 42, 10S-18S.	1.1	36
223	Update on Neurologic Intensive Care Medicine. <i>Developments in Critical Care Medicine and Anesthesiology</i> , 1997, , 413-428.	0.1	0
224	Experimental Traumatic Brain Injury: Implications for Clinical Treatment. <i>Developments in Critical Care Medicine and Anesthesiology</i> , 1997, , 123-138.	0.1	0
225	Determinants of cerebral perfusion during cardiopulmonary bypass. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 1996, 10, 54-65.	0.6	46
226	Signal Extraction Technology. <i>Anesthesia and Analgesia</i> , 1996, 83, 213-214.	1.1	7
227	Validation in Volunteers of a Near-Infrared Spectroscopy for Monitoring Brain Oxygenation In Vivo. <i>Anesthesia and Analgesia</i> , 1996, 82, 269-277.	1.1	99
228	Cerebral Near-Infrared Spectroscopy. <i>Anesthesia and Analgesia</i> , 1996, 83, 673-674.	1.1	5
229	Signal Extraction Technology. <i>Anesthesia and Analgesia</i> , 1996, 83, 213-214.	1.1	6
230	Cerebral Near-Infrared Spectroscopy. <i>Anesthesia and Analgesia</i> , 1996, 83, 673-674.	1.1	16
231	Validation in Volunteers of a Near-Infrared Spectroscopy for Monitoring Brain Oxygenation In Vivo. <i>Anesthesia and Analgesia</i> , 1996, 82, 269-277.	1.1	172
232	CRYSTALLOIDS VERSUS COLLOIDS IN THE PERIOPERATIVE PERIOD. <i>Anesthesiology Clinics</i> , 1996, 14, 341-368.	1.4	5
233	The Influence of Carbon Dioxide and Body Position on Near-Infrared Spectroscopic Assessment of Cerebral Hemoglobin Oxygen Saturation. <i>Anesthesia and Analgesia</i> , 1996, 82, 278-287.	1.1	95
234	Hypertonic saline does not improve cerebral oxygen delivery after head injury and mild hemorrhage in cats. <i>Critical Care Medicine</i> , 1996, 24, 109-117.	0.4	40

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236	Solutions in search of problems. <i>Critical Care Medicine</i> , 1996, 24, 1104-1105.	0.4	2
237	Cerebral Metabolic Consequences of Hypotensive Challenges in Hemodiluted Pigs With and Without Cardiopulmonary Bypass. <i>Anesthesia and Analgesia</i> , 1995, 81, 911-918.	1.1	8
238	Double-blind, randomized, multicenter study of doxacurium vs. pancuronium in intensive care unit patients who require neuromuscular-blocking agents. <i>Critical Care Medicine</i> , 1995, 23, 450-458.	0.4	66
239	Cerebral near-infrared spectroscopy. <i>Critical Care Medicine</i> , 1995, 23, 1624-1626.	0.4	16
240	Hypertonic Acetate Dextran Achieves High-Flow-Low-Pressure Resuscitation of Hemorrhagic Shock. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1995, 38, 602-608.	1.1	22
241	Limiting Initial Resuscitation of Uncontrolled Hemorrhage Reduces Internal Bleeding and Subsequent Volume Requirements. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1995, 39, 200-209.	1.1	101
242	Current Trends in Brain Trauma. <i>Critical Care Medicine</i> , 1995, 23, 1785.	0.4	1
243	Monitoring Neuromuscular Blockade in the Critically Ill. <i>Critical Care Medicine</i> , 1995, 23, 1790-1791.	0.4	0
244	Phenylephrine Does Not Reduce Cerebral Perfusion During Canine Cardiopulmonary Bypass. <i>Anesthesia and Analgesia</i> , 1994, 79, 14??18.	1.1	31
245	Medium Starch, Please. <i>Anesthesia and Analgesia</i> , 1994, 79, 1034??1035.	1.1	18
246	Fluid and Divalent Cation Therapy in the Critically Ill Patient. <i>International Anesthesiology Clinics</i> , 1993, 31, 21-48.	0.3	0
247	Brain Monitoring in the Critical Care Unit. <i>Developments in Critical Care Medicine and Anesthesiology</i> , 1993, , 195-209.	0.1	1
248	Neurologic Complications of Cardiac Surgery. <i>Developments in Critical Care Medicine and Anesthesiology</i> , 1993, , 371-380.	0.1	0
249	Cerebrovascular Responses to Shock During Resuscitation. <i>Developments in Critical Care Medicine and Anesthesiology</i> , 1993, , 69-80.	0.1	0
250	Reduced cerebral blood flow, oxygen delivery, and electroencephalographic activity after traumatic brain injury and mild hemorrhage in cats. <i>Journal of Neurosurgery</i> , 1992, 76, 812-821.	0.9	120
251	Pulse Oximetry. <i>Anesthesia and Analgesia</i> , 1992, 74, 177-180.	1.1	11
252	Cerebral perfusion during canine hypothermic cardiopulmonary bypass: Effect of arterial carbon dioxide tension. <i>Annals of Thoracic Surgery</i> , 1991, 52, 479-489.	0.7	42

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254	Cerebrovascular Effects of Small Volume Resuscitation from Hemorrhagic Shock. <i>Journal of Neurosurgical Anesthesiology</i> , 1991, 3, 47-55.	0.6	11
255	Small-volume resuscitation from hemorrhagic shock in dogs. <i>Critical Care Medicine</i> , 1991, 19, 364-372.	0.4	46
256	Cerebral Blood Flow Decreases With Time Whereas Cerebral Oxygen Consumption Remains Stable During Hypothermic Cardiopulmonary Bypass in Humans. <i>Anesthesia and Analgesia</i> , 1991, 72, 161-168.	1.1	37
257	Hypertonic/Hyperoncotic Fluid Resuscitation After Hemorrhagic Shock in Dogs. <i>Anesthesia and Analgesia</i> , 1991, 73, 738-744.	1.1	25
258	Preoperative and Intraoperative Predictors of Inotropic Support and Long-Term Outcome in Patients Having Coronary Artery Bypass Grafting. <i>Anesthesia and Analgesia</i> , 1991, 72, 729-736.	1.1	103
259	Cerebral Effects of Hypertonic Saline. <i>Journal of Neurosurgical Anesthesiology</i> , 1990, 2, 253-255.	0.6	7
260	Traumatic Brain Injury Creates Biphasic Systemic Hemodynamic and Organ Blood Flow Responses in Rats. <i>Journal of Neurotrauma</i> , 1990, 7, 141-153.	1.7	22
261	Fluid Resuscitation in Head-injured Patients: Unresolved Issues. <i>Journal of Intensive Care Medicine</i> , 1990, 5, 53-56.	1.3	2
262	Should thiopental sodium administration be a standard of care for open cardiac procedures?. <i>Journal of Clinical Anesthesia</i> , 1990, 2, 221-225.	0.7	1
263	Labetalol for the control of elevated blood pressure following coronary artery bypass grafting. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 1990, 4, 210-221.	0.2	22
264	Cerebral Blood Flow Declines Independently of Metabolism During Hypothermic Cardiopulmonary Bypass. , 1990, , 265-271.		4
265	Physiology and Pharmacology of Cerebral Blood Flow and Metabolism. <i>Critical Care Clinics</i> , 1989, 5, 713-728.	1.0	14
266	Cerebral blood flow during cardiopulmonary bypass in a patient with occlusive cerebrovascular disease. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 1989, 3, 87-90.	0.2	11
267	Cerebral Blood Flow Does Not Change Following Sodium Nitroprusside Infusion During Hypothermic Cardiopulmonary Bypass. <i>Anesthesia and Analgesia</i> , 1989, 68, 122-126.	1.1	18
268	Thromboxane A2 Receptor Antagonist SQ29548 Does Not Improve Canine Postischemic Cerebral Hypoperfusion. <i>Journal of Neurosurgical Anesthesiology</i> , 1989, 1, 56-62.	0.6	0
269	The Effects of Regional and General Anesthesia on Blood Pressure Control after Carotid Endarterectomy. <i>Journal of Neurosurgical Anesthesiology</i> , 1989, 1, 41-45.	0.6	10
270	Cerebral blood flow is reduced in patients with sepsis syndrome. <i>Critical Care Medicine</i> , 1989, 17, 399-403.	0.4	147

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272	Fluid Resuscitation in Septic Shock. Anesthesia and Analgesia, 1989, 69, 699-704.	1.1	18
273	Hemodynamic Status Following Regional and General Anesthesia for Carotid Endarterectomy. Journal of Neurosurgical Anesthesiology, 1989, 1, 35-40.	0.6	33
274	The Effects of Traumatic Brain Injury on Regional Cerebral Blood Flow in Rats. Journal of Neurotrauma, 1988, 5, 289-301.	1.7	161
275	Experimental Traumatic Brain Injury Elevates Brain Prostaglandin E ₂ and Thromboxane B ₂ Levels in Rats. Journal of Neurotrauma, 1988, 5, 303-313.	1.7	102
276	Theophylline Effect on the Cerebral Blood Flow Response to Hypoxemia. Chest, 1988, 94, 371-375.	0.4	27
277	Effects of nimodipine on the production of thromboxane A ₂ following total global cerebral ischemia. Journal of Neurosurgery, 1988, 69, 416-420.	0.9	5
278	SHOCK PLUS INTRACRANIAL HYPERTENSION INCREASES CEREBRAL THROMBOXANE RELEASE. Critical Care Medicine, 1988, 16, 383.	0.4	0
279	RESUSCITATION FROM HEMORRHAGIC SHOCK IN ASSOCIATION WITH AN INTRACRANIAL MASS. Critical Care Medicine, 1988, 16, 384.	0.4	0
280	NIMODIPINE NEUROPROTECTION DOES NOT DECREASE THROMBOXANE RELEASE FOLLOWING GLOBAL CEREBRAL ISCHEMIA. Critical Care Medicine, 1988, 16, 450.	0.4	0
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282	INDICATIONS FOR INVASIVE MONITORING. International Anesthesiology Clinics, 1988, 26, 119-123.	0.3	1
283	The Effect of Aminophylline on Cerebral Blood Flow in Patients with Chronic Obstructive Pulmonary Disease. Chest, 1987, 91, 874-877.	0.4	18
284	CEREBRAL BLOOD FLOW IS UNCHANGED FOLLOWING ACUTE REDUCTION IN MEAN ARTERIAL PRESSURE WITH CAPTOPRIL. Critical Care Medicine, 1987, 15, 399.	0.4	0
285	INTRACRANIAL PRESSURE FOLLOWING RESUSCITATION FROM HEMORRHAGIC SHOCK. Critical Care Medicine, 1987, 15, 433.	0.4	0
286	Effects of Resuscitation from Hemorrhagic Shock on Cerebral Hemodynamics in the Presence of an Intracranial Mass. Journal of Trauma, 1987, 27, 18-23.	2.3	23
287	Case conference. Journal of Cardiothoracic and Vascular Anesthesia, 1987, 1, 157-164.	0.2	0
288	Cerebral hemodynamics after hemorrhagic shock. Critical Care Medicine, 1986, 14, 629-633.	0.4	22

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289	Nosocomial pulmonary infection. <i>Critical Care Medicine</i> , 1986, 14, 265-270.	0.4	245
290	Effects of hypertonic saline versus lactated Ringer's solution on cerebral oxygen transport during resuscitation from hemorrhagic shock. <i>Journal of Neurosurgery</i> , 1986, 64, 627-632.	0.9	60
291	NOSOCOMIAL PULMONARY INFECTION. <i>Critical Care Medicine</i> , 1985, 13, 300.	0.4	68
292	Pulmonary artery wedge pressure may fail to reflect left ventricular end-diastolic pressure in dogs with oleic acid-induced pulmonary edema. <i>Critical Care Medicine</i> , 1985, 13, 487-491.	0.4	2
293	Cardiopulmonary effects of hypertonic saline in canine oleic acid-induced pulmonary edema. <i>Critical Care Medicine</i> , 1985, 13, 814-817.	0.4	6
294	BENEFIT OF CARDIAC OUTPUT AUGMENTATION WITH POSITIVE END-EXPIRATORY PRESSURE IN CANINE OLEIC ACID PULMONARY EDEMA. <i>Critical Care Medicine</i> , 1985, 13, 306.	0.4	0
295	Effects on cerebral hemodynamics of resuscitation from endotoxic shock with hypertonic saline versus lactated Ringer's solution. <i>Critical Care Medicine</i> , 1985, 13, 1040-1045.	0.4	17
296	Effects on intracranial pressure of resuscitation from hemorrhagic shock with hypertonic saline versus lactated Ringer's solution. <i>Critical Care Medicine</i> , 1985, 13, 407-411.	0.4	166
297	Adult respiratory distress syndrome secondary to ethylene glycol ingestion. <i>Annals of Emergency Medicine</i> , 1985, 14, 594-596.	0.3	28
298	Implications of nimodipine prophylaxis of cerebral vasospasm on anesthetic management during intracranial aneurysm clipping. <i>Journal of Neurosurgery</i> , 1985, 62, 200-205.	0.9	24
299	Symptoms of clinically silent intracranial mass lesions precipitated by treatment with nifedipine. <i>World Neurosurgery</i> , 1985, 24, 151-152.	1.3	4
300	Myocardial infarction following regional anaesthesia for carotid endarterectomy. <i>Canadian Anaesthetists' Society Journal</i> , 1984, 31, 192-196.	0.5	30
301	High-frequency jet ventilation produces auto-PEEP. <i>Critical Care Medicine</i> , 1984, 12, 734-737.	0.4	61
302	Acute cyanide poisoning from laetrile ingestion. <i>Annals of Emergency Medicine</i> , 1983, 12, 449-451.	0.3	20
303	Muscle relaxants for intubation hazardous. <i>Annals of Emergency Medicine</i> , 1983, 12, 514-515.	0.3	0
304	The Auto-Peep Effect. <i>The American Review of Respiratory Disease</i> , 1983, 127, 134-134.	2.9	4
305	Diagnostic Value of Systemic Curare Testing. <i>Anesthesiology</i> , 1982, 57, 226-227.	1.3	1
306	BRONCHOSCOPIC TUBE CHANGE IN CRITICALLY ILL PATIENTS. <i>Critical Care Medicine</i> , 1980, 8, 246.	0.4	1

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307	Comparison of Morphine and Ketamine Anesthetic Technics for Coronary Surgery. Southern Medical Journal, 1978, 71, 33-36.	0.3	18